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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/554,921 08/28/2000		Thorsten Schutte	9847-0062-6X	1401
22850	7590 02/24/2004		EXAMINER NGUYEN, TUYEN T	
OBLON, S 1940 DUKE	PIVAK, MCCLELLA			
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•		2832	
			DATE MAILED: 02/24/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

A	✓	X	

_	Application No.	Applicant(s)					
	09/554,921	SCHUTTE ET AL.					
Office Action Summary	Examiner	Art Unit					
	TUYEN T NGUYEN	2832					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL . 2b) ⊠ This							
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) 23-45 is/are pending in the application	1.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>23-45</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
	10)⊠ The drawing(s) filed on <u>28 August 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 	s have been received. s have been received in Applicati	on No					
3. Copies of the certified copies of the prior	•	ed in this National Stage					
application from the International Bureau							
* See the attached detailed Office action for a list	or the certified copies not receive	eu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom Application (FTO-132)					

Application/Control Number: 09/554,921

Art Unit: 2832

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the flexible conductor further comprising a metal shield and sheath must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 37 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant fails to disclose an adequate written description of the flexible conductor further comprising a metal shield and sheath.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 09/554,921

Art Unit: 2832

Claims 35 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 35, applicant should clarify the specific structure intended by the central electrical conductor comprising a plurality of strands of wire with only a minority of the strands being in electrical contact with each other.

Regarding claim 37, applicant should clarify the structure of the flexible conductor comprising a metal shield and sheath.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23-39 and 41-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leibinger et al. [US 4,403,205] in view of Elton et al. [US 4,853,565].

Leibinger et al. discloses a transformer [figure 1] comprising:

- a core [11];
- a high voltage winding having turns [HV1-HV2]; and
- a low voltage winding having turns [LV1-LV2], wherein each of the high and low voltage windings are magnetically permeable and have a flexible conductor and the turns of the high voltage winding are intermixed with the turns of the low voltage winding.

Application/Control Number: 09/554,921

Art Unit: 2832

Leibinger et al. discloses the instant claimed invention except for the specific flexible conductor.

Elton et al. discloses a high voltage electrical cable [100, figure 7] comprising current carrying conductors [102], an inner, semiconducting grading layer [104] made of pyrolized glass fiber [column 7, lines 19-20] surrounding and being in electrical contact with the current carrying conductors [102], a solid insulating layer [106] surrounding an contacting the inner layer, and an outer layer [110] having semiconducting properties surrounding and contacting the solid insulating layer [106], being in contact with ground.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify of the high and low voltage windings of Leibinger et al. to use flexible conductor of Elton et al. in order to prohibit development of corona discharge.

Regarding claims 24-26, 28 and 45, the specific arrangement of the high and low voltage windings would have been an obvious design consideration based on the desired output characteristics.

Regarding claims 43-44, the claimed method steps would have been necessitated by the product structure.

Regarding claims 38-39 and 41-42, the specific cross-sectional area of the electrical conductor and electrical field contain within the conductor would have been an obvious design consideration based on the intended electrical load.

Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leibinger et al. in view of Elton et al. as applied to claims 23-39 above, and further in view of Thomas [US 4,400,675].

Leibinger et al. in view of Elton et al. discloses the instant claimed invention except for struts of laminated material located between the high and low voltage windings.

Thomas discloses a transformer having low and high voltage windings [figure 2] with struts of laminated magnetic material [abstract] disposed therebetween.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the struts of Thomas in Leibinger et al., as modified, for the purpose of adjusting the transformer impedance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1966.

The examiner can normally be reached on M-F 8:30-6:30.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TW

Trujen Ngrujen